

Fig.1

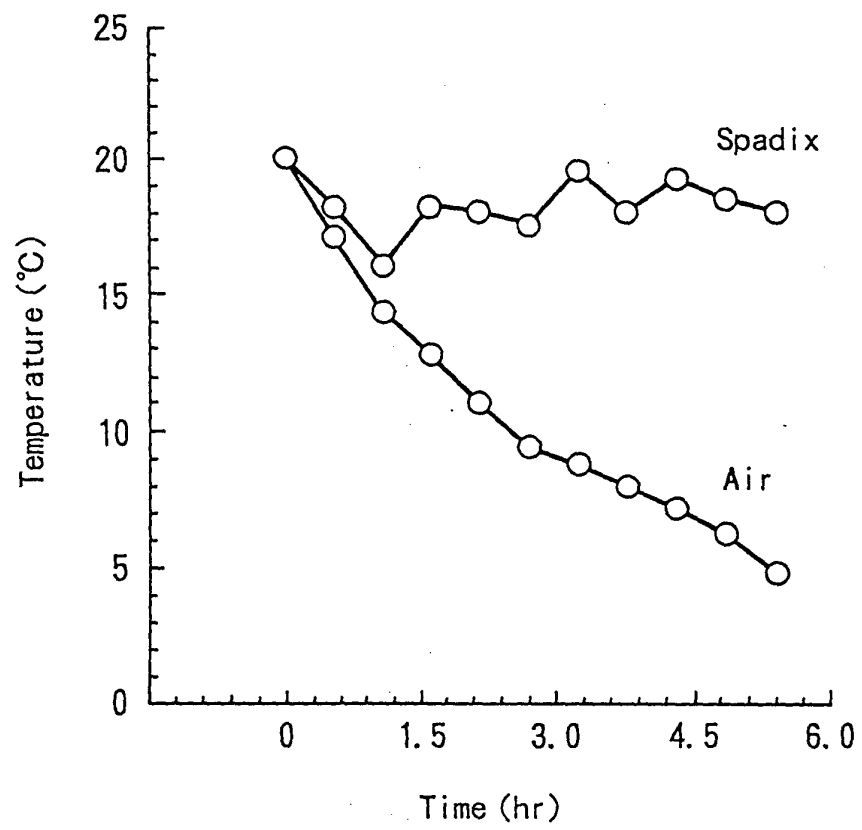


Fig.2

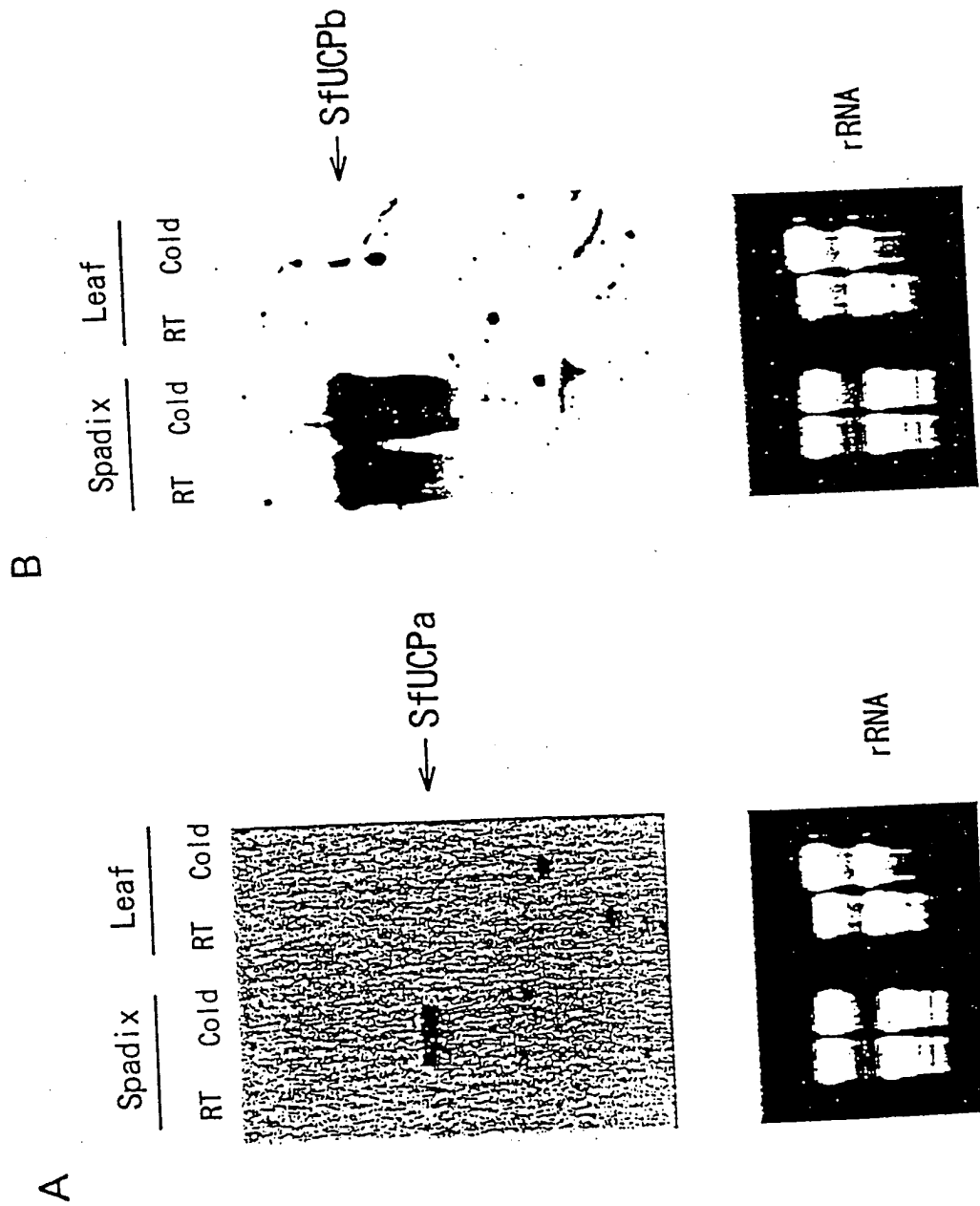


Fig.3 Top

I

SfUCPA	1	---MGDHGPRTEISFAGSSR-AAFAACFAELCT	PLDTAKVRLQLQKRAVTGDV-VALPKY	56
SfUCPB	1	---MGDHGPRTEISFAGSSR-AAFAACFAELCT	PLDTAKVRLQLQKRAVTGDV-VALPKY	56
StUCP	1	MGGDHHGKSDISFAGIFASSAFACFAEACTIP	LDLDTAKVRLQLQKRAVEGCG-LALPKY	59
AtPUMP	1	---MVAAGKSDLSLPKTFACSAFAACVGEVCTIP	LDLDTAKVRLQLQKSAFTLAGDVTLPKY	57
human UCP1	1	-MGGLTASDVHPTLVGVQLFSAP IAACLADVIITHP	LDLDTAKVRLVQQGECPP---TSSVIRY	55
human UCP2	1	-MVGFKATDVPPPTATVKFLGAGTAACIADLIITHP	LDLDTAKVRLIQGESQCPVRATASAQY	59
human UCP3	1	-MVGLKPSDVPPPTMAVKFLGAGTAACFADLVTHP	LDLDTAKVRLIQGGENQ-AVQTARLVQY	58

II

SfUCPA	57	RGMLGTVATIAREEGLSALHWKGI	VPGLHRQCLFGGLRIGLYEPVKSFYVG--DNFVGDI	114
SfUCPB	57	RGMLGTVATIAREEGLSALHWKGI	VPGLHRQCLFGGLRIGLYEPVKSFYVG--DNFVGDI	114
StUCP	60	RGLLGTVGTIAKEEGLASLHWKGI	VPGLHRQC IYGGCLRIGMYEPVKNLYVG--KDHVG	117
AtPUMP	58	RGLLGTVGTIAREEGLSALHWKGI	VPGLHRQC LFGGLRIGMYEPVKNLYVFTGKDF	117
human UCP1	56	KGVLGTITAVVKTTEGRPKLYSGLP	AGLQRQISSASLRIGLYDVTVQEFFLTA---GKETAPS	112
human UCP2	60	RGVMGTILTMVTRTEGPRSLYNGLV	AGLQRQMSEASVRIGLYDSVKQFYT-----KGSEHAS	115
human UCP3	59	RGVLGTILTMVTRTEGPCSPYNGLV	AGLQRQMSEASIRIGLYDSVKQVYTP---KGADNSS	115

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IV

A

IV

172	GLGALWTGLGPNLARNAI	INAAELASYDQVKQTILKLP	GFSDNIFTHILAG--	LGAGFFA	229
172	GLGALWTGLGPNLARNAI	INAAELASYDQVKQ-----	-----	-----	203
175	GVRALWTGLGPNIGRNAI	INAAELASYDQVKEAVLR	IPGFTDNVVTHLIAG--	LGAGFFA	232
177	GVRALWTVLGPVNARNAI	INAAELASYDQVKETILK	IPGFTDNVVTHILSGL	FTGAGFFA	236
169	GLTGLWKGTTPNLMRSVI	INCTELVTYDLMKEAFV	KNNILADDPCHLVSA--	LIAGFCA	226
171	GFRGLWKGTSPVNARNAI	VNCAELVTYDLIKDALL	KANLMTDOLPCHFTSA--	FGAGFCT	228
174	GVRGLWKGTLPNIMRNAI	VNCAEVVTYDILKEKLL	DYHLLTDNFPCHFVSA--	FGAGFCA	231

Fig.3 Down

VI

SfUCPA	230	VCIGSPVDVVKSRAMGDS--AYKSTFDCFIKTLKNDGLLAFYKGFIPNFGRLG--SNNVI	285
SfUCPB	204	-----MKSRAMGDS--AYKSTFDCFIKTLKNDGPLAFYKGFIPNFGRLG--SNNVI	250
StUCP	233	VCIGSPVDVVKSRAMGDS--AYKNTLDCFVKTLKNDGPLAFYKGFIPNFGRLG--SNNVI	288
AtPUMP	237	VCIGSPVDVVKSRAMGDS--AYKGTIDCFVKTLKSDGPMFAYKGFIPNFGRLGSTNNVI	295
human UCP1	227	TAMSSPVDVVKTRHINSPPGQYKSVNPNCAKVF TNEGPTAFFKGLVPSFLRLG--SNNVI	284
human UCP2	229	TVIASPVDVVKTRHNMNSALGQYSSAGHCALTMQKEGPRAFYKGFMPSEFLRLG--SNNVV	286
human UCP3	232	TVVASPVDVVKTRHNMNSPPGQYFS2LDCMIKMWAEQEGPTAFYKGFTPSEFLRLG--SNNVV	289

PNBD

SfUCPA	286	MFLTLEQVKRFFIKEVPN-----	303
SfUCPB	251	MFLTLEQVKRFFIKEVPN-----	268
StUCP	289	MFLTLEQAKKFVKSLESP-----	306
AtPUMP	296	MFLTLEQAKKYVRELDASKRN--	316
human UCP1	285	MFVCFEQLKRELSKSRQTHDCAT	307
human UCP2	289	MFVTYEQLKRALMAACTSREAPF	309
human UCP3	290	MFVTYEQLKRALMKVQMLRES PF	312

Fig.4

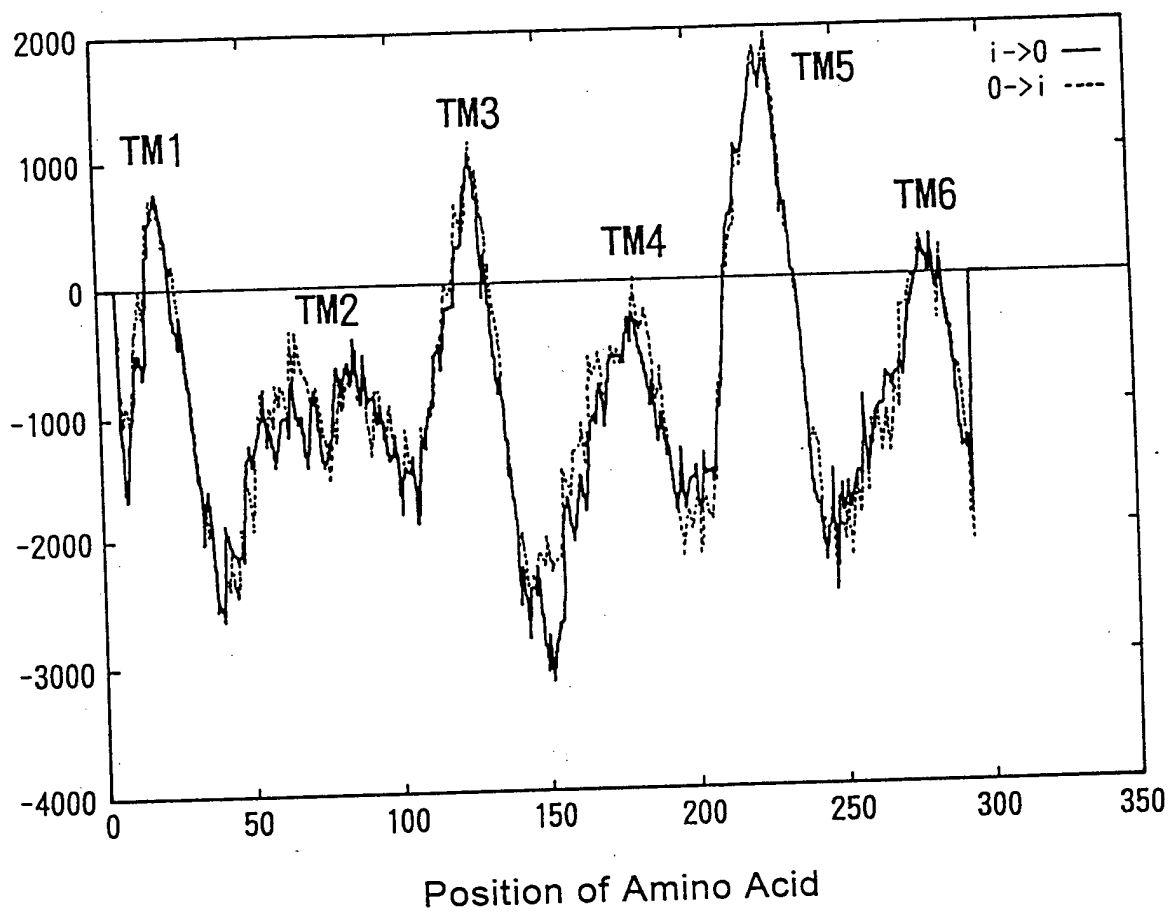


Fig.5

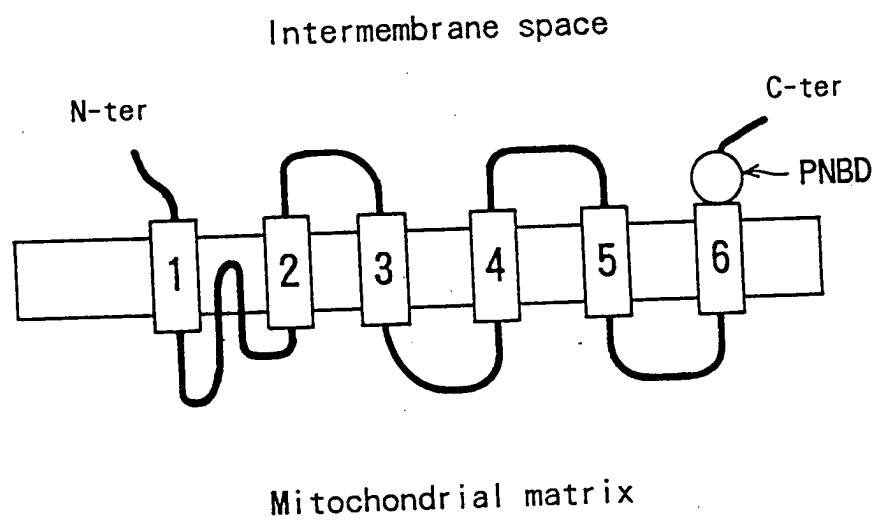


Fig.6

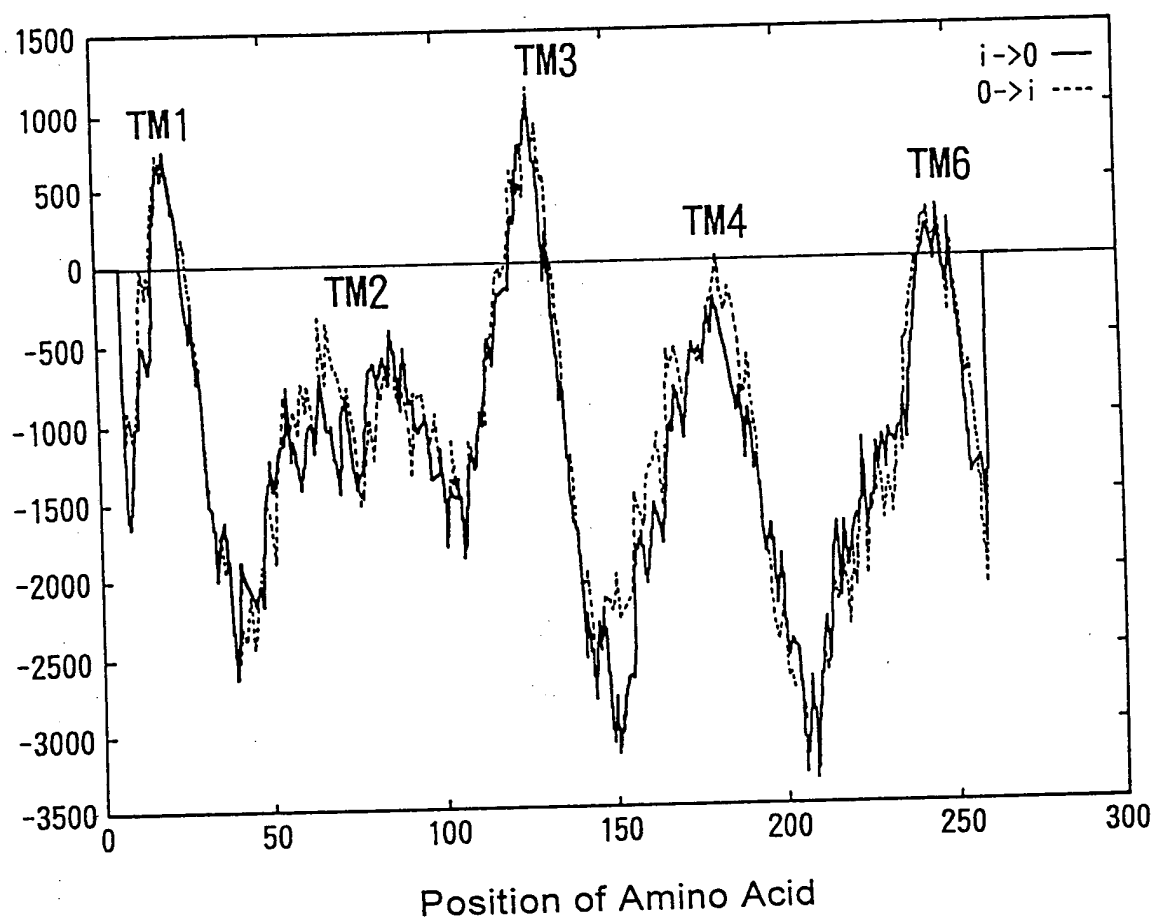


Fig.7

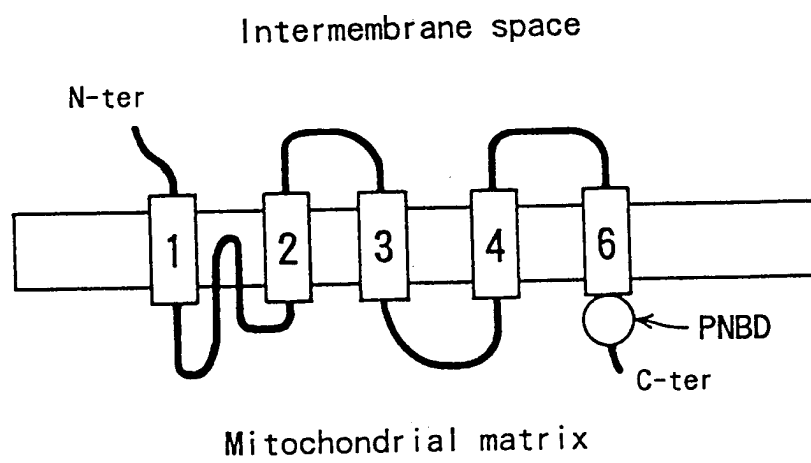


Fig.8

